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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re the Application of:

John T. Coffey

TI-35975

Art Unit: 2661

Serial No: 10/696,045

Examiner:

Filed: October 29, 2003

Conf. No.: 5845

For: Increasing Effective Number of Data Tones in a Multi-Tone Communication System

INFORMATION DISCLOSURE STATEMENT

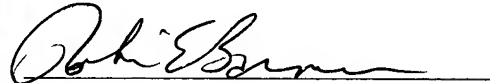
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Dear Sir:

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I hereby certify that the above correspondence is being deposited
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Robin E. Barnum

Applicant wishes to bring to the attention of the Patent and Trademark Office the information noted on the enclosed PTO-1449. Copies of the noted references are enclosed herewith. The relevancy of each of the references is noted on the enclosed Search Reports.\

Since this IDS is being submitted before any Office Action, no fee is due.

Respectfully submitted,



Abdul Zindani
Attorney for Applicant
Reg. No. 46,091

Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, TX 75265
(972) 917-5137

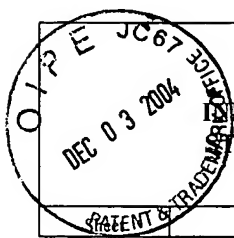
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PTO/SB/08A (08-03)

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Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete If Known

Application Number	
Filing Date	October 29, 2003
First Named Inventor	John T. Coffey
Group Art Unit	2661
Examiner Name	
Attorney Docket No.	TI-35975

U.S. PATENT DOCUMENTS

Exam. Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	US 2002/0075949 A1		Banerjee, et al.	6/20/02	
	AB	US 2001/0055287 A1		Sawada, et al.	12/27/01	
	AC					
	AD					
	AE					
	AF					
	AG					

FOREIGN PATENT DOCUMENTS

Exam. Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
	BA	WO	03/003634 A1		Matsushita Electric Industrial Co., Ltd.	6/29/01		
	BB	WO	03/028323 A1		Siemens	6/14/02		
	BC	EP	1 083 719 A2		Sony Corp.	3/14/01		
	BD							
	BE							
	BF							
	BG							

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam. Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA		
	CB		
	CC		
	CD		
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Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application No: GB0409812.5

Examiner: Owen Wheeler

Claims searched: 1-16

Date of search: 17 September 2004

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X,Y	X:1-3,5-9,11-15;Y:4,10	WO 03/003634 A1 [MATSUSHITA] See abstract and Fig. 2.
X,Y	X:1-3,5-9,11-15;Y:4,10	WO 03/028323 A1 [SIEMENS] See abstract.
X,Y	X:1-3,5-9,11-15;Y:4,10	EP 1083719 A2 [SONY] See abstract and Fig. 7.
X,Y	X:1,5-7,11-13;Y:4,10	US 2001/055287 A1 [SAWADA] See abstract.
Y	Y:4,10	US 2002/075949 A1 [BANERJEA] See abstract.

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^W :

H4P

Worldwide search of patent documents classified in the following areas of the IPC⁰⁷

H04L

The following online and other databases have been used in the preparation of this search report

EPODOC, JAPIO, WPI, Inspec